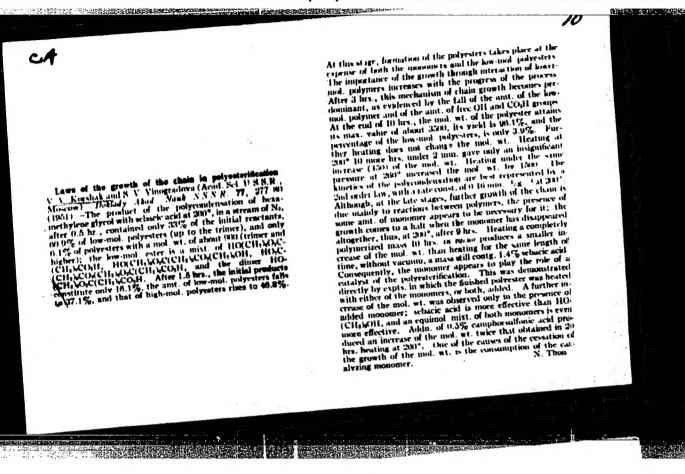
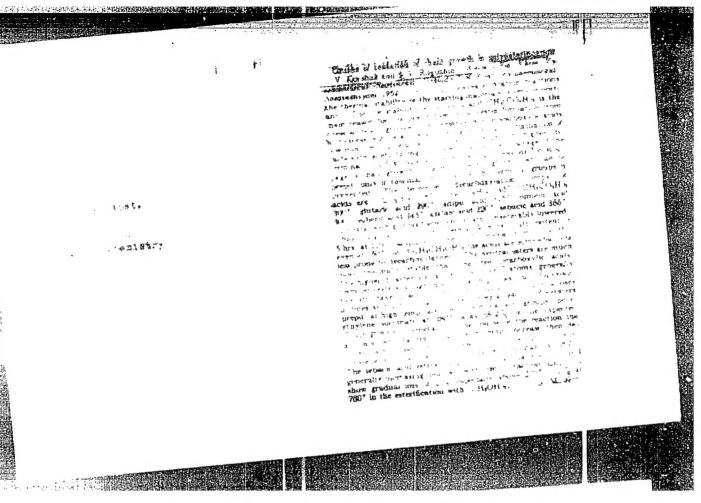
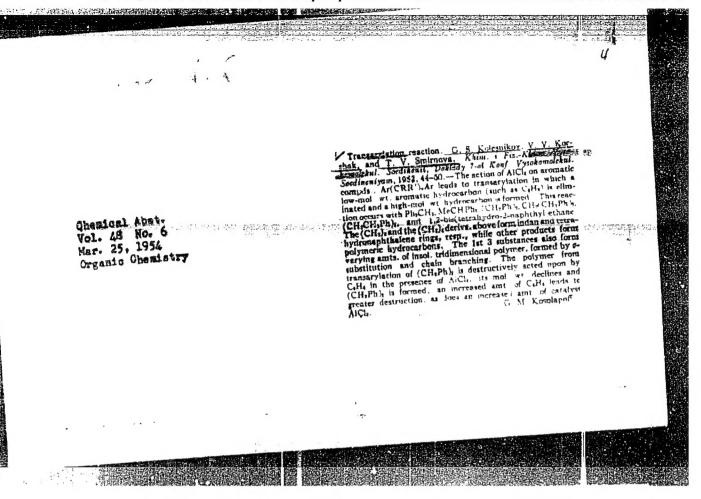


PSHAK, V. V.			13416 -	
T84/T6	USSR/Chemistry - Hydrocarbons (Contd) 11 Peb 51 chloride, detd optimum conditions in regard to hydrocarbon yield and obtained yields of 33-79% based on RHs1.	"Dok Ak Nauk SSSR" Vol LXXVI, No 5, pp 605-607 Examd reaction 2RMgX + C2Cl6 = R-R + C2Cl4 + 2MgClX, discovered by Korshak (1939), on bromo- benzene (I), p-bromotoluene (II), alpha-bromo- naphthalene (III), ethyl bromide (IV), and methyl todide (V). I yielded diphenyl, II ditolyl, III dinaphthyl, IV ethane and ethylene, V ethane and methane. On I, II, III, IV, V, and benzyl	arbons From Magne arbons From Magne acting the Latte	
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STHEPIKHEYEV, Yu.A.; CRIROVA, I.A.; LOSSV, I.P.; KORSHAK, V.V.; BABKIN, B.M.;

DATSKAVICH, L.A.

Copolymerisation reaction of discovanates with glycols. Khim, 1 Fis.
Khim. Vysokomolekul. Soedineniy, Doklady 7-oy Konf. Vysokomolekul.
Soedineniyam '52, 59-67.
(CA 47 no.15:7820 '53)

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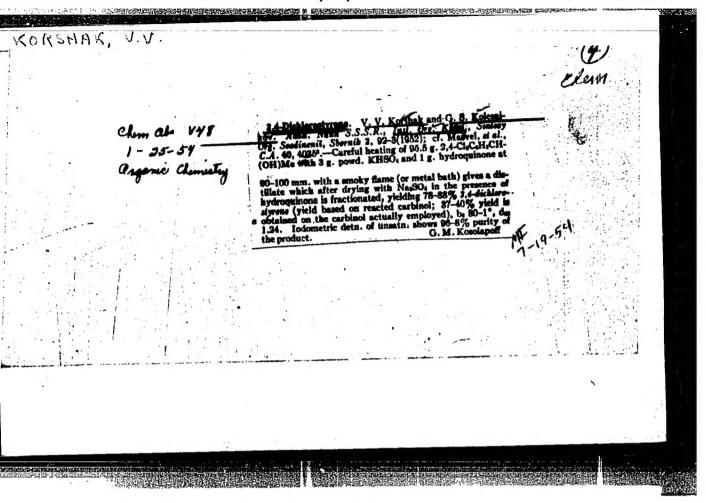
VINCGRADOVA, S. V. KORSHAK, V. V.,

High Molecular Weight Compounds

High molecular weight compounds. Part 43. The significance of acidolysis in the reaction of polyesterification. Izv. AN SSSR. Otd.khim.nauk No. 1, 1952.

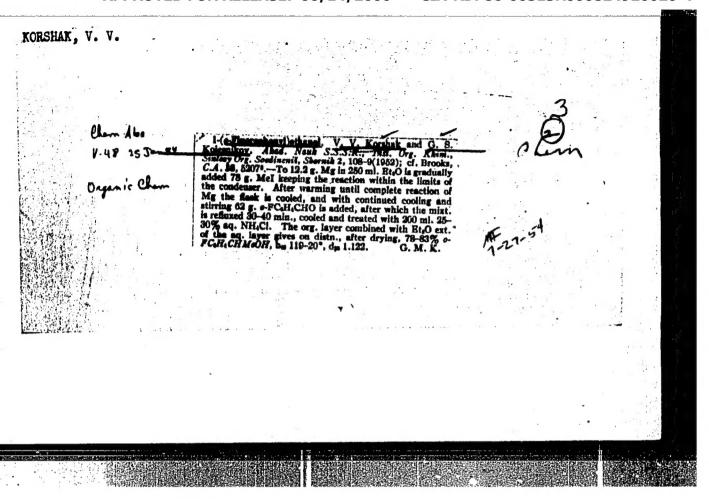
Monthly List of Russian Accessions, Library of Congress, September

molekul. Socdinensis. Doklady 7-si Konf. molekul. Socdinensyam 1953, 69-67; Ch. 1953, 47, 7820. The copolymerisation of methylene disocynnate with 1, 4-butant investigated and on expression deducated methylene dissocyanate with 1, trustated investigated and an expression deduced for mol.wt. of the product. The highest mol. wt attained near the equinolecular proportion monomers. Addition of an alcohol or piperion to the state of the product of the product of the product of the piperion and the product of the piperion and the monomers. Addition of an alcohol or piperidic causes a severe drop in mol. wt. The viscosity of the mixture becomes constant after about 10 brs. 130° to 175° C. Tertiary amines catalyne the reaction and the highest viscosities are produced in a prior or chlorobenzene solution. The product is a solid mol. wt. up to 34,600, melting at about 122° and decomposing above 216° C.



"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824920020-4



**CRSHAK, V. V. and GIBOYA, I. A.

"Certain Laws Governing the Reactions of Mutual Polymerization of Diisocyanates With Glycols," DAN, No. 3, pp 397-400, 1952.

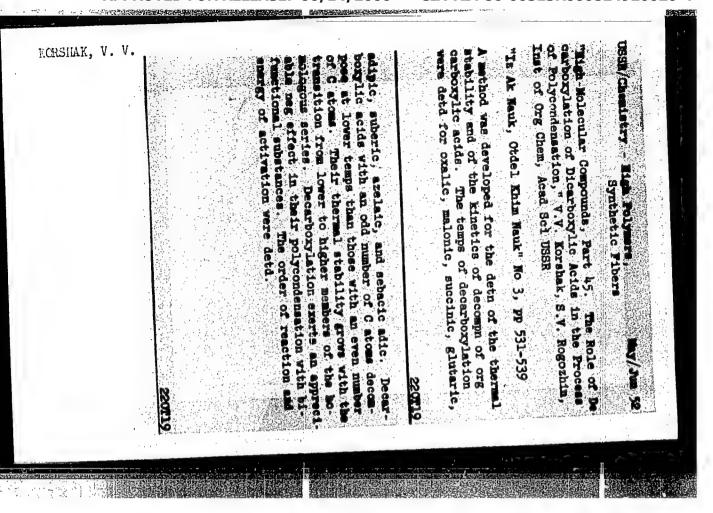
KOGHAK, V. V.

USSR/Chemistry - High Polymers, May/Jun 52 Synthetic Fibers

"High-molecular Compounds. Part 44. Polyesters of Some Aromatic Dicarboxylic Acids," V.V. Korshak, T.A. Soboleva, Inst of Org Chem, Acad Sci USSR

"Iz Ak Nauk, Otdel Khim Nauk" No 3, pp 526-530

Obtained polyesters from ethylene glycol or diethylene glycol and aromatic dicarboxylic acids. Discusses the question of the effect of the chain structure of the polymer on its phys properties. The general idea of 3-dimensional polymers requires correction. Gives the properties of the polyesters obtained.



1.	KORSHAK.	V.	V	VINOGRADOVA.	S	v
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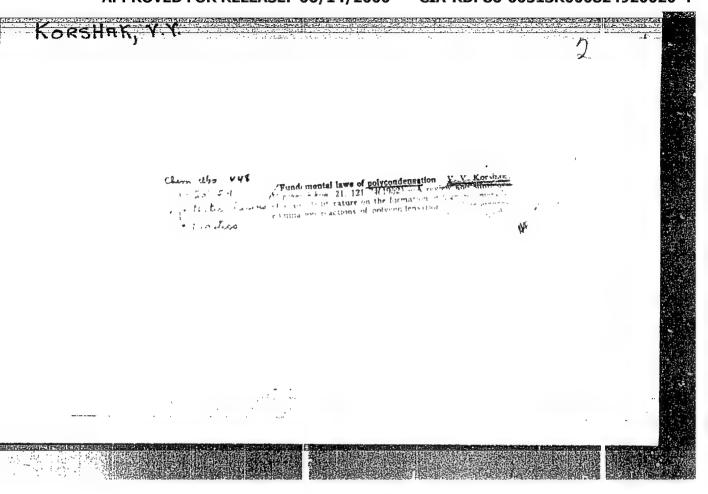
- 2. USSR (600)
- 4. Molecules
- 7. High molecular weight compounds. Part 52. Reactions between polyester macromulecules. Izv AN SSSR Otd khim nauk, No 6 1952.

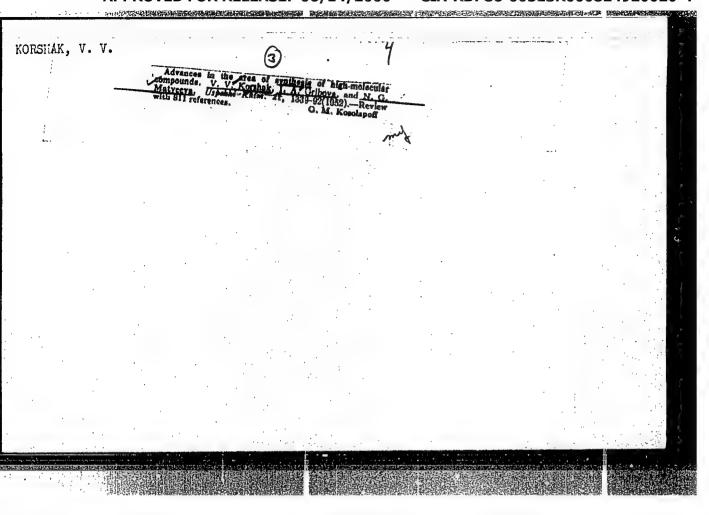
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

1. KORSHAMPRROVEDREGIRARELEASEATOGFI4/2000 CIA-RDP86-00513R000824920020

- 2. USSR (600)
- 3. High Molecular Weight Compounds
- 4. Progress in the synthesis of high molecular weight compounds. Usp. khim. No. 11 1952

9. Monthly list of Russian Acessions, Library of Congress, February, 1953. Unclassified.





APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824920020-4"

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V.V. KORSHAK, T.D. KOZAFENKO

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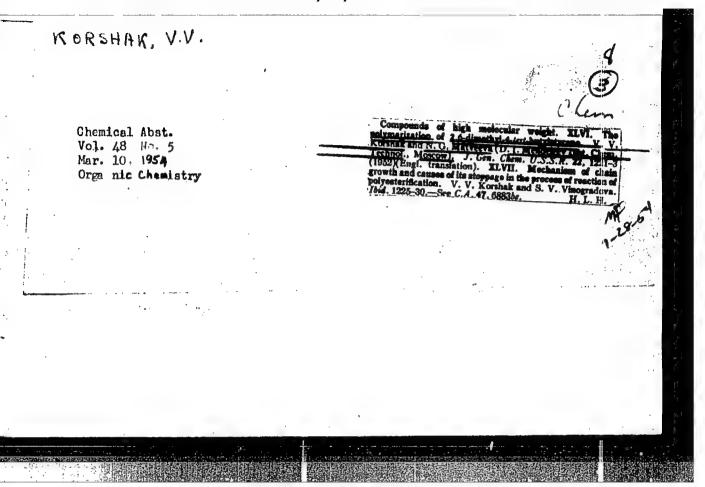
USSR?Chemistry - Hydrccarbons Polymerization Catalysts.

"Synthesis of Hydrocarbons by the Action of Hexachloroethane on Organo-Magnesium Compounds." Inst. of Org. Chem., Acad Sci USSR

Zhur Obshch Khim Vol 22, No5, pp 771-773

The reaction leads to the formation of hydrocarbons which are dimers of the radicals that were contained in the organomagnesium compd. This applies only to aromatic radicals and to the methyl radical. In the case of ethyl magnesium bromide, very little butane is formed. The main product is ethylene with an admix of ethane. Organomagnesium compds are initiators for styrene polymerization, especially in presence of hexachlorcethane.

263 T 26



KORSHAK, V. V.

Card 1 of 2

USSR/Chemistry - Synthetic Fibers

Jul 52

"From the Field of Compounds of High Molecular Weight, XLVII. Concerning the Mechanism of Chain Growth in the Process of the Polyesterification and the Reasons for Its Cessation,"

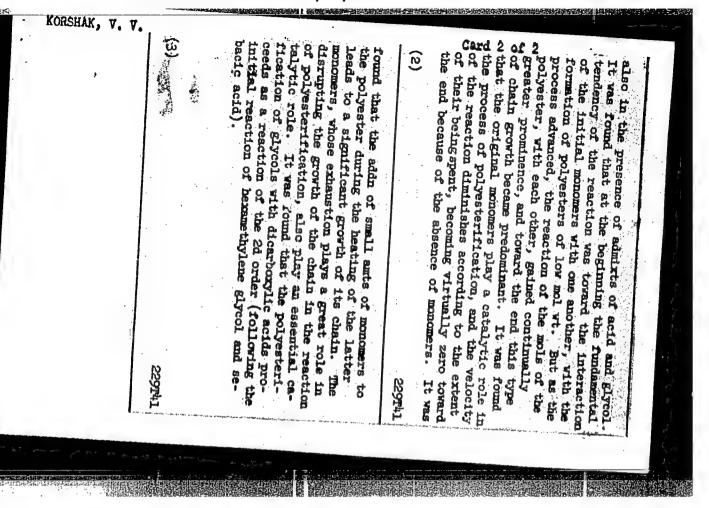
V. V. Korshak, S. V. Vinogradova, Lab of High-Mol Compds, Inst of Org Chem, Acad Sci USSR

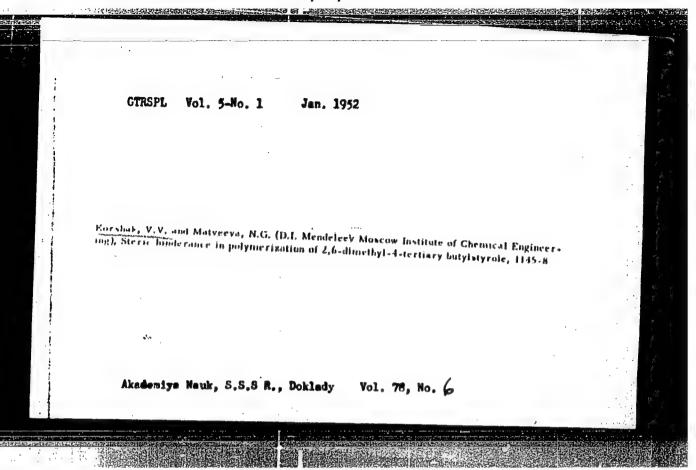
"Zhur Obshch Khim" Vol 22, No 7, pp 1176-1183

The kinetics of the reaction of polyesterification of hexamethylene glycol and sebacic acid was investigated under diverse conditions, and

(2)

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KORSHAK, V. V.	Mol wt is lowered by starting with a either the glycol or the discoyanat polymer by alc extraction results in them that by steam distillation. Molowered by addn of alcs or amines.	"Dok Ak Mauk SSSR" Vol IXXXII, No 3, 4,4-Diisocyanatediphenylmethane /QCN tetramethyleneglycol in nitrobenzene acted to obtain polyurethanes. At teand above 150° polyurethane of low muthaile between 145-150° there is a may	USSR/Chemistry - Plastics; Sy Fibers "Some Rules of the Copolymeri With Glycols," V. V. Korchsk, Chem-Technol Inst imeni D. I.	
	n excer e. Sej lower	OCN (R) IZENE SOLL At temps LOW mol wi	Synthetic erization of ak, I. A. Gri I. Mendeleye	
211T33	211733 ss of an of the mol wt	NCO and a were re- below 1450 t is obtains	21 Jan 52 Diisocyanates Dova, Moscow	·i

KORSHAK,				# # W C		Danka	H	S G H H	8
				change polycon mation monoeth		Studi acid hydro tion	Ď,	"The Sign Process of Chelnoko Sci USSR	W88./C
					,	Studied produ acid with mon hydroxyethl-) tion pictures from I and II	"Dok Ak Nauk	The Signi Process of Chelnokov, Sci USSR	(Chemistry -
				guil guil gola		This series	lauk	0.44	
				reactions ndensation. equilibria manolamine		II w	SSS	olyc olyc	2
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		• •		have occurred ew up a scheme the reaction sebacic acid.		Studied products of polyconderacid with monoethanolamine (I hydroxyethl-) sebacinamide (I tion pictures and other data from I and II were identical,	8	The Significance of Exchange Process of Polycondensation," Chelnokov, G. I. Distler, Institutions	•
	:	• . • • •		212 8 4 5 4		onde (I sta (Al,	CH	Ing.	1
				occurred a scheme eaction c acid.		densat (I) an (II). a. show	, M	Rea V of	
				T CO		Studied products of polycondensation of sel acid with monoethanolamine (I) and N,N'-di hydroxyethl-) sebacinamide (II). Electron tion pictures and other data showed that p from I and II were identical, proving that	855R" Vol LXXXII, No 4, pp 589-591	Reactions in Y. Y. Korshak t of Org Chem,	No.
				in the of pol		ion of seld N,N'-di Electron ed that p	đđ	tions in the Korshak, G. Org Chem, Aca	Ē
				poly een	- E -	of seb	589	e de	
	Ŋ			the polyconden- een	25	sebacic di (beta- on diffra producta	-59	AC.	1 700 52
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KOLESNIKOVA, C. S.; KORSHAK, V. V.

Amination

Catalytic amination of cyclohexanol. Dokl. AN SSSR 85 No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952, Uncl.

KORSHAK, V.V.

USSR/Chemistry - Rearylation

1 Jul 52

"The Reaction Mechanism of Rearylation of Diarylalkanes," G. S. Kolesnikov, V. V. Korshak, Inst of Org Chem, Acad Sci SSSR

"Dok Ak Nauk SSSR" Vol LXXXV, No 1, pp 95-98

The 1st step in rearylation of diarylalkanes is formation of a complex with the catalyst (aluminum chloride) which results in polarization of the diaryl bond. Such a complex can then hold several diaryl mols. At elevated temps, this complex decomposes with the sepn of benzene, after which the remaining double complex combines with another diaryl mol. Presented by Acad B. A. Kazanskiy 30 Apr 52.

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(CA 47 no.15:7470 53)

	PA 227711
Four groups of compds were tested in regard to their polymerization capacity: (1) ethylene tetrahalides; (2) unsym disubstituted ethylene threshalides; (2) unsym disubstituted ethylene with simple substitutents; (3) ortho-substituted siphs-methyletyrenes; (4) ortho-disubstituted alpha-methyletyrenes; (4) ortho-disubstituted alpha-methyletyrenes; (4) ortho-disubstituted alpha-methyletyrenes. They have an especial significance in tetrasubstituted ethylenes, and it meaning in di-and even in some monosubstituted ethylenes. The results of the work also ethylenes. The results of the work also ethylene for polymerization is affected not the activity and polarity of the substituted only by the influence of the substituent on but also by its purely spatial influence infresented by Acad A.N. Mesmeyanov 5 Jun 52.	The Effect of Stereochemical Factors on the Concept of Substituted Ethylenes for Polymerization, V.V. Korshak, N.G. Matveyevs, Inst of Org Chem, Acad Sci USSR.

Britiapper VED FOR RELEASE 06/12/2000 CIA-RDP86-00513R000824920020-B II

Aug. 1953

Plastics; Resins; Paints;

Surface Coatings

Paints;

Can be and a surface of the distribution function of the surface of the x-mers and x and x are polymerisation coeff. and average polymerisation coeff. respectively. Experimental data for the mol-wt. distribution of polymers are obtained by the ultracentriting seedimentation method applied to all fractions of an polymeridate in methanol. The experiments confirm the assumption of interaction and regrouping between polymer chains of different length, implicit in the evolved formula.

S. K. Lacitowicz.

Inol. High Molecular Compdo. AS USSE

CIA-RDP86-00513R000824920020-4

KORSHAK, V. V.

KORSHAK, V.V.

[Methods of high molecular weight organic chemistry] Metody vyso-komolekuliarnoi khimii. Vol. I. [General methods of synthesizing high molecular weight compounds] Obshchie metody sintera vysoko-molekuliarnykh soedinenii. Moskva, Izd-vo Akademii nauk. 1953.

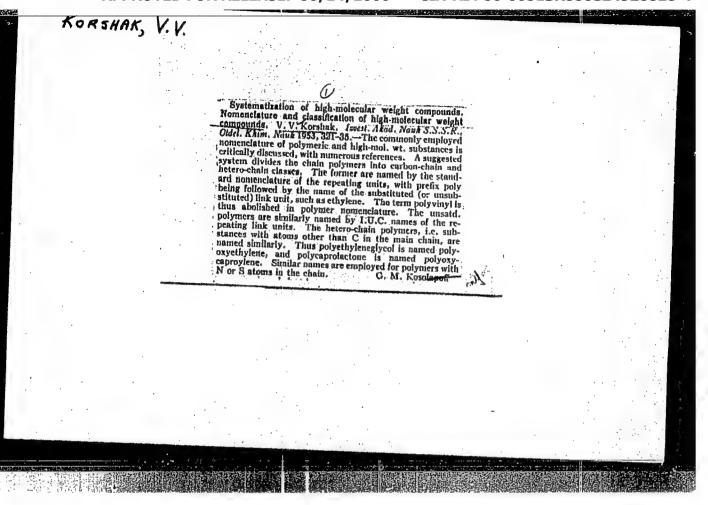
(MERA 7:5)

1. Akademiya namk 2552. Institut organicheskoy khimii. (Chemistry, Organic-Synthesis) (High molecular weight compounds)

"O Mekhanizme Reaktsii Polikondensatsii,"

XIIIth International Congress of Pure and Applied Chemistry,
IVIIth Conference of the UNIon (IUPAC) Stockholm, Sul 29 - Aug 4 '53.

Uppsala Aug 5-7 '53.



USSR/Chemistry - High-Molecular Compounds, Isotopes Jan/Feb 53

"The Field of High Molecular Compounds. Report 51, Investigation of the Exchange Reaction of Polyesters With the Use of the Heavy Isotope of Hydrogen," D. N. Kursanov, V. V. Korshak and S. V. Vinogradova, Inst of Org Chem, Acad Sci USSR

Iz Ak Nauk SSSR, OKhN, No 1, pp 140-144

KOWINK, V. V.

The exchange reaction of polyhexamethylene sebacinate with the diethyl ester of 2, 3-dideutero succinic acid was investigated. The occurrence of

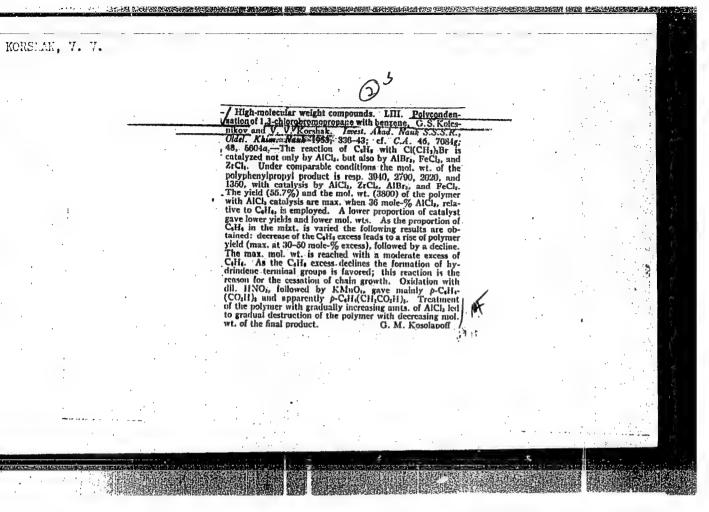
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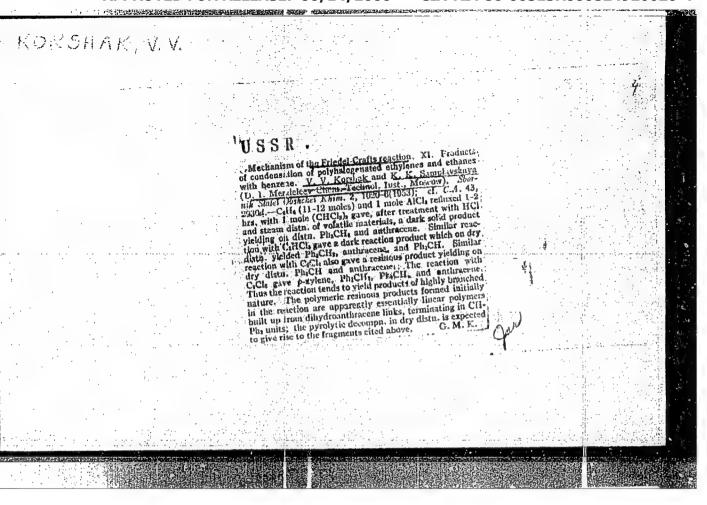
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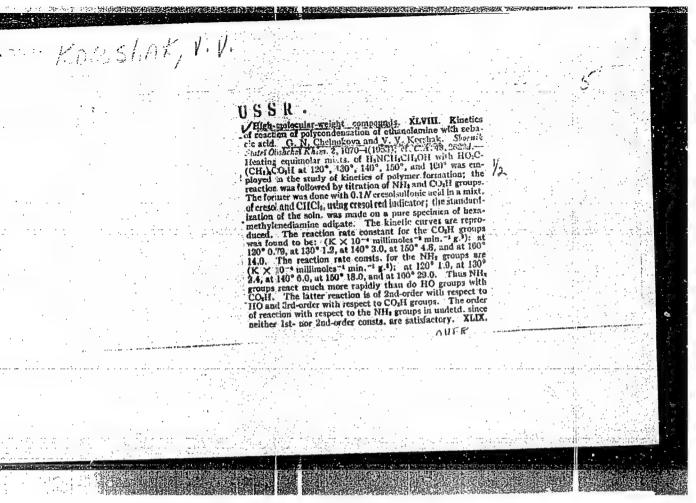
exchange reactions in the process of polyesterification was demonstrated. Such exchange reactions take place because of the complex ester bonds. A convenient method was developed to obtain the diethyl ester of 2, 3-dideutero succinic acid.

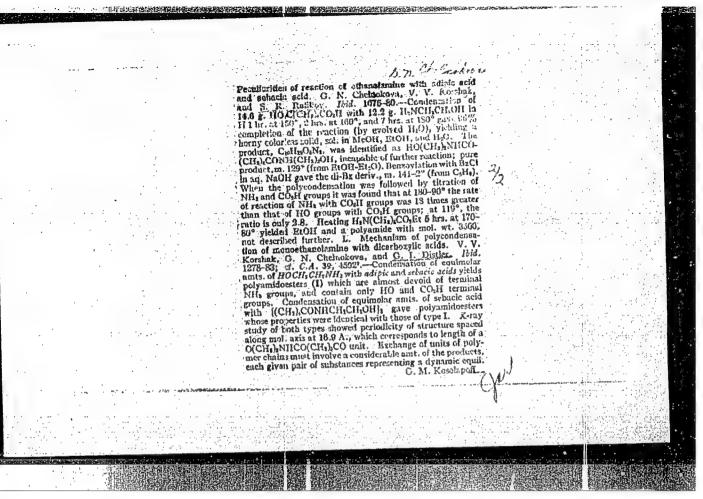
"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824920020-4









KORSHAK, V. Y.; CHELNOKOVA, G. N. and DISTLER, G. I.

High Molecular Compounds. L. The Mechanism of Polycondensation of Monoethanol Amine with Dicarboxylic Acids, page 1278, Sbornik Statey po obshchey khimii (Collection of Papers on General Chemistry), Vol II, Moscow-Leningrad, 1953, pages 1680-1686.

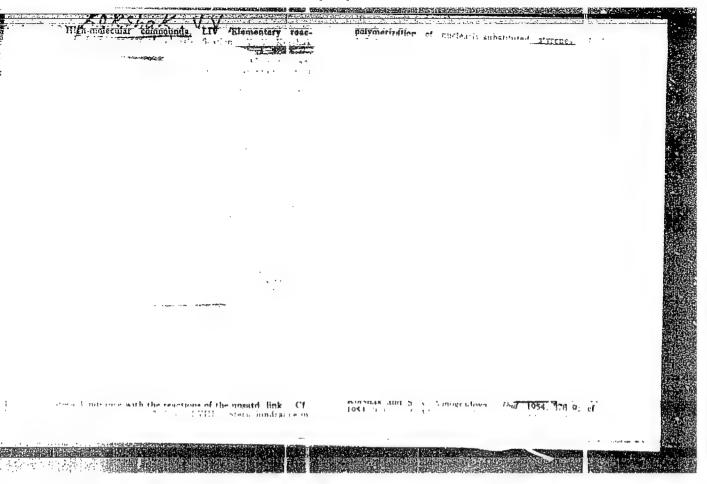
CHELNOKOVA, G. N., KORSHAK, V. V., AND RAFIKOV, S. R.

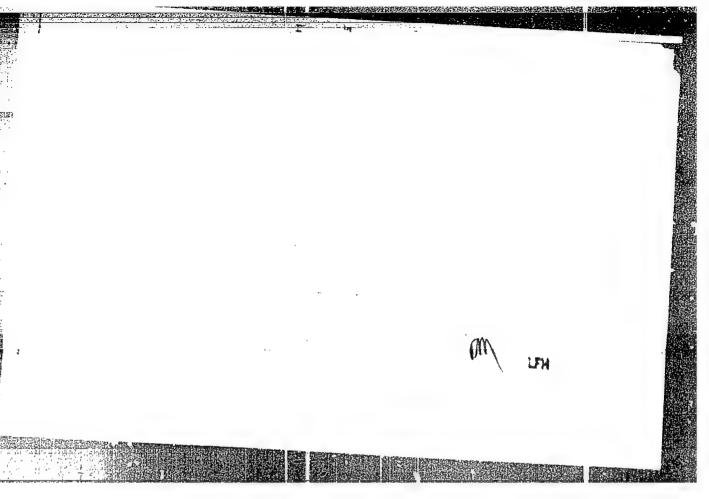
From the Field of High Molecular Compounds. XLIX. Reaction Characteristics of Monoethylamine With Adipic and Sebacic Acids

Investigated the condensation reaction of monoethylamine with adipic acid in order to clarify the reaction mechanism and the intermediate products. Also investigated the condensation of the ethyl ester of epsilon-aminocaproic acid into a polymer. (RZhKhim, No 1, 1955)

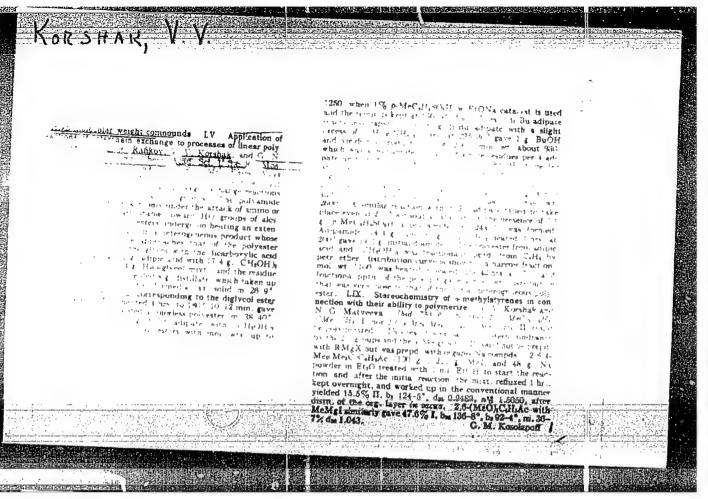
Sb. Statey po Obshch. Khimii. M.-L. Izd-vo AN SSSR, Vol 2, 1953, 1075-1080

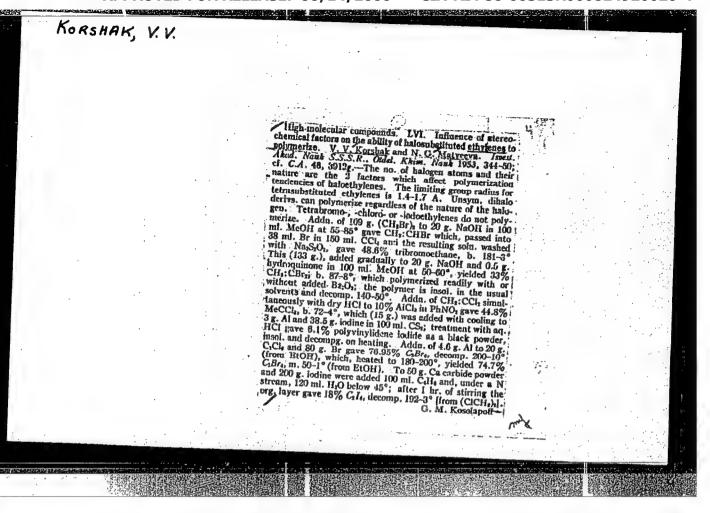
SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

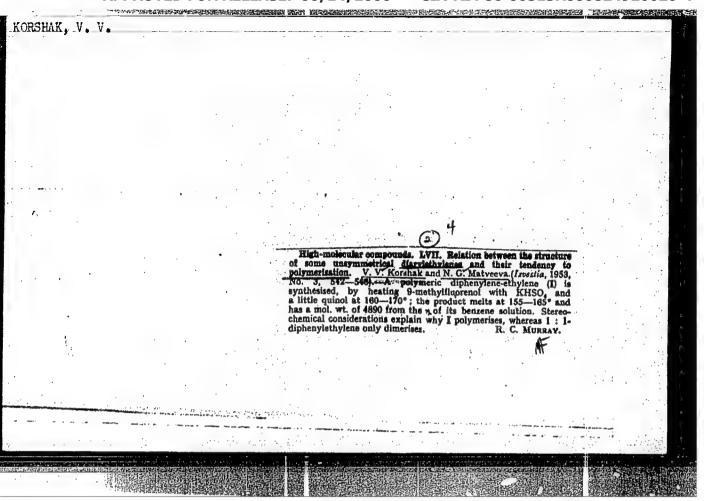


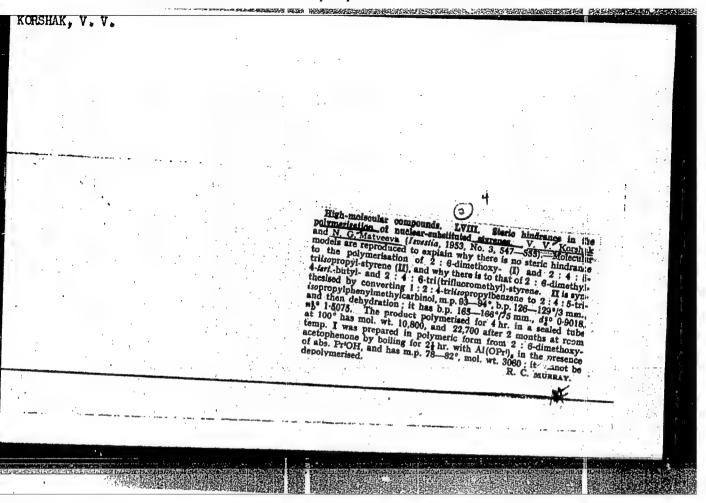


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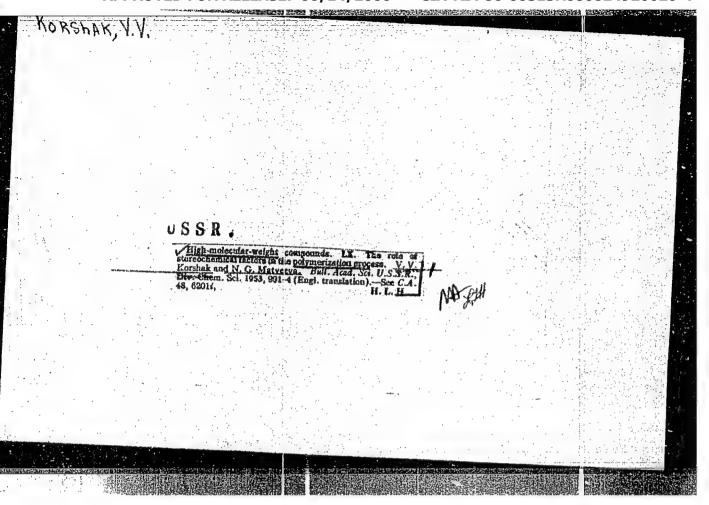




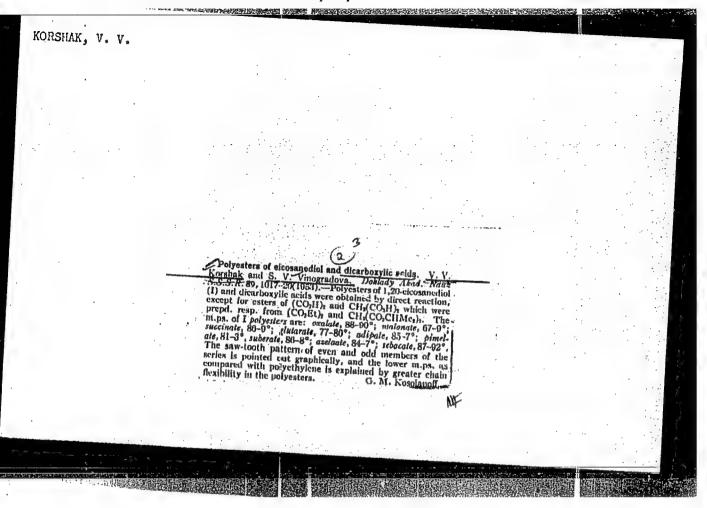
KORSHAK, V.V.; MATVEYEVA, N.G.

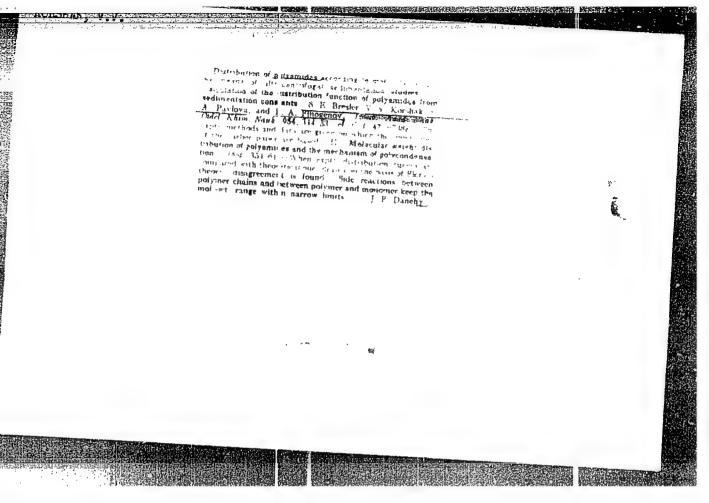
From the field of high molecular weight compounds. Report 59. Stereochemistry of &-methylstyrenes in connection with their capacity to polychemistry of of-methylstyrenes in connection with since merisation. Izv.AN SSSR. Otd.khim.nauk no.4:751-756 Jl-Ag 53.

1. Institut organicheskoy khimii Akademii nauk SSSR. (Polymers and polymerization) (Styrenes)



KORSHA tesm/Chemistry - High-molecular compounds Card Pub. 40 - 22/22 Authors Korshak, V. V., and Vinogradova, S. V. Title From the field of high-molecular compounds. Part 62 .- Polymondensation of acid esters of adipic acid and various glycols Periodical Izv. AN SSSR. Otd. khim. nauk 5, 951-95/4, Sep-Oct 1953 Abstract The polycondensation of acid glycol esters of adipic acid - ethylene glycol diadipinate and eicosandiol - was investigated. It was found that acid glycol esters submit to polycondensation forming poly-esters. The scheme of synthetic reactions of the poly-esterification process is explained. It was established that the growth of the poly-ester chain during poly-esterification is due not only to the reaction of the end groups activated by the reaction of straight esterificat on but also to the process of re-esterification promoted by the alcoholysis and acidolysis reactions. Twelve references: 11-USSR and 1-USA (1944-1953). Table. Institution Academy of Sciences USSR, Institute of Organic Chemistry Submitted November 5, 1952





REESLER, S.Ye.; KORSHAK, V.V.; PAVLOVA, S.A.; PINOGMOV, P.A.

Experimental study of distribution functions for polyamides in relation to molecular weights, by the method of ultracentrifuge sedimentation. Report no. 2. Molecular-weight distribution of polyamides and the mechanics of polyondensation. Inv.AW SSER.

Otd.khim.nauk no. 2:354-361 Mr-Ap '54. (MERA 7:6)

1. Institut vysokomolekulyarnykh soyedineniy. 2. Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk SSSE.

(Amides) (Molecular weights)

THE RESERVE THE PROPERTY OF TH

KORSHAK, V.V.; VINOGRADOVA, S.V.

From the field of high molecular weight compounds. Report no. 61.
Reactions of the macromolecules of a polyester. Isv.AN SSSR. Otd.
khim.nauk no.2:376-379 Mr-Ap '54. (MERA 7:6)

1. Institut organicheskoy khimii im, N.D.Zelinskogo Akademii nauk SSSR.

(Esters) (High molecular weight compounds)

Decarboxylization USSR/ Chemistry Card Korshak, V. V., and Rogozhiu, E. V. Authors From the field of high-molecular compounds. Part 61.- Decarboxylization Title of dicarboxylic acids during polycondensation, Izv. AN SSSR, Otd. Phin. Nauk. 3, ShI - Sh9, May - June 1954 Periodical The effect of temperature on the process of polycondensation of ethylene Abstract glycol with oxalic, malonic, succinic, adipic and sebacic acids, was investigated. The process of decarboxylization in the presence of ethylene glycol, which in the case of oxalic and malonic acids forms ne polyesters and in the case of succinic and adipic acids decreases the molecular weight of polyestors (with increase in temperature), is explained. Explanations are also given for the sharp reduction in the decarboxylization temperature and the formation of carbon dioxide which take place in the presence of glycol. Eight USSR references. Tables, graphs, drawing. Institute : Acad. of Sc. USSR, The H. D. Zelinskiy Institute of Crg. Chemistry Submitted March 25, 1953

USSR/Chemistry Polymerization Card -Authors : Korshak, V. V., and Orlbova, I. A. Title From the field of high-molecular compounds. Part 63.- Influence of various factors on the process of combined polymerization of dii30cyanatos with glycols. Periodical : Izv. AN SSSR, Otd. Klim. Nauk, 3, 550 - 561, May - June 1954. Abstract The effect of time, temperature, concentration, ratio of initial substances and additions of mono-functional compounds on the increase in molecular weight of polyurethans, formed during combined polymerization of 4,4'-diisocyanates of diphenylmethane with tetramethylene glycol, was investigated. The results obtained are described in detail. Nineteen references: 13 USSR, 6 German. Tables, graphs. Acad. of Sc. USSR, The N. D. Zelinskiy Institute of Crg. Chemistry Institution Submitted April 28, 1953

USSR/ Chemistry Organic chemistry Card : 1/1 Pub. 40 - 13/27 Korshak, V. V., Poroshin, K. T., and Kozarenko, T. D. Authors Title From the field of high molecular compounds. Part 64.- Polycomdensation of ethyl ether of d,l-alanine Periodical ! Isv. AN SSSR. Otd. khim, nauk 4, 663 - 669, July - August 195 Abstract the polycondensation reaction of ethyl ether of d,l-alanine, was investigated at various temperatures to determine the effect of catalysts on this process. The effect of soids (including carbonic and am no soids), and bases on the rate of polycondensation reaction, is discussed. The kinetics of the polycondensation was investigated in the presence of carbonic anhydride, acetic acid, polyalanine and without the catalyst. The water-soluble products, obtained from combined polycondensation of ethyl ethers of d,1-phenylalanine and glycol, are described. Twelve references: 4 USSR; 5 German; 2 USA and 1 Swiss (1894 - 1951). Tables; graphs; diagrams. Institution : Acad. of Sc. USSR, Institute of Organic Chemistry Submitted * August 29, 1953

"APPROVED FOR RELEASE: 06/14/2000 CIA-RI

CIA-RDP86-00513R000824920020-4

KOMSHAK. V. V. USSR/ Chemistry Physical chemistry Card 1/1 Pub. 40 - 14/27 : Korshak, V. V., and Gribova, I. A. Authors Title From the field of high molecular compounds. Part 66 .- Investigation of the kinetics of copolymerization of dilsocyanates with glycols : Tev. AN SSSR. Otd. khim. nauk 4, 670 - 676, July - August 1954 Periodical. Abstract : The kinetics of the copolymerization reaction of discovanate of diphenylmethane with tetramethyleneglycol, was investigated at 145 and 1550 in a nitrobenzene solution at concentrations of 0.352 and 0.0703 mol/liter. The rate of increase in molecular weight of the polyurathan during the copolymerization process, was determined. The effect of rising temperature and increased concentration of basic substances, on the increase in molecular weight of the forming polyurethan, 14 explained. A new method of determining the molecular weight of polyurethans, by the final isocyanate groups, is described. Four USSR references (1946 - 1954). Tables; graphs. Institution : Acad. of Sc. USSR, The N. D. Zelinskiy Institute of Organic Chemistry Submitted : August 29, 1953

KORSHAK, V.V.

USSR/Chemistry - High molecular compounds

Card 1/2

Pub. 40 - 20/27

Authors

Korshak, V. V.; Vinogradova, S. V.; and Vlasova, E. S.

Title

High molecular compounds. Part 67

Periodical

Izv. AN SSSR. Otd. khim. nauk 6, 1089-1096, Nov-Dec 1954

Abstract

The characteristics of poly esters of dicarboxylic acids and certain polymethylene glycols were determined by such factors as the change in total number of methylene groups during the conversion from one homologous group member into another and by the mutual orientation of bonds, which also varies during change from acids with even number of atoms to uneven acids.

Institution:

Acad. of Sc., USSR, The N. D. Zelinskiy Institute of Organ. Chemistry

Submitted

November 5, 1953

Fub. 40 - 20/27

Fub. 4

NORSHAK, V.V.

Authors

USSR/ Chemistry - High molecular compounds

Card 1/1 Pub. 40 - 21/27

Korshak, V. V.; Vinogradova, S. V.; and Vlasova, E. S.

Title High molecular compounds. Part 68

Periodical Izv. AN SSSR. Otd. khim. nauk 6, 1097-1102, Nov-Dec 1954

Abstract The derivation of poly esters of diethylene glycol, triethylene glycol and propylene glycol with dicarboxylic acids is described. The effect of the structure of the basic substances on the melting point and solubility of the synthesized esters was evaluated. The effect of ethereal oxygen and side chain on the properties of poly esters was investigated and it was found that the introduction of a methyl side group into the poly ester molecule produces an effect analogous to the introduction of three or four ether bonds which sharply reduces the crystallinity of the ester and the melting point and increases the solubility. Three USSR references (1953 and 1954). Table; graphs.

Institution Acad. of Sc. USSR, The N. D. Zelinskiy Institute of Organ. Chemistry

Submitted November 5, 1953

AID P - 270

KORSHAK, V.V.

Subject

USSR/Chemistry

Card

: 1/1

Authors

: Korshak, V. V. and Vinogradova, S. V. (Moscow)

Title

: Linear polyesters

Periodical

Usp. khim. 23, No. 3, 314-376, 1954

Abstract

The classification of polyesters; methods of preparation of linear polyesters; their characteristics and uses are reviewed. Fourteen tables. Fifty three diagrams. One flow sheet. 331 references (101 Russian); 1833-1954.

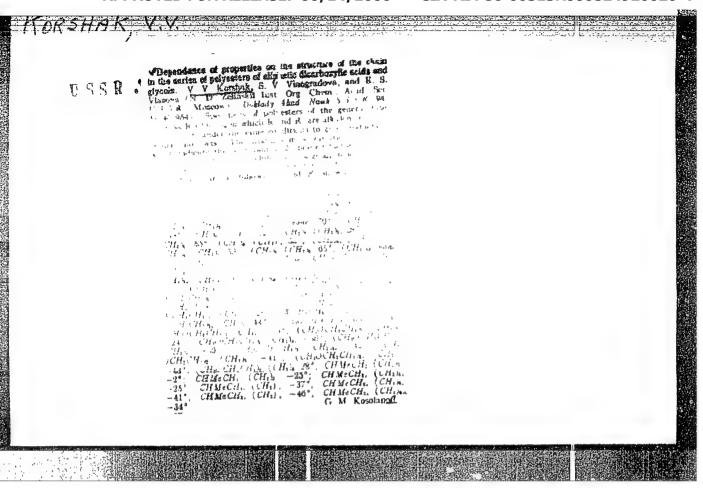
Institution:

None

Submitted

: No date

Translation No. 392, 21 Apr 55



USSR/Chemistry

Card 1/1

Authors: Korshak, V. V., Memb. Corres. of Acad. of Sc. USSR.; and Frunze, T. M.

Title: Connection between the structure of a ring and the properties of heterocyclic polyamides

Periodical: Dokl. AN SSSR, 97, Ed. 2, 261 - 264, July 1954

Abstract: The connection between the structure of a ring and the properties of heterocyclic polyamides is explained. Table is given showing the melting points of heterocyclic polymides derived from dicarboxylic acids or amino acids with even number of methylene groups. This table also contains data on the amount of smide groups in the chain and the number of macro-moles.

points of heterocyclic polymides derived from dicarboxylic acids or amino acids with even number of methylene groups. This table also contains data on the amount of smide groups in the chain and the number of macro-molecules measured in molar percentages. An increase in the number of amide groups by 1 mol. 5 leads to an increase in the melting point of polymides by 7. The possibility of formation of hydrogen bonds is determined by the stereo chemistry of the macro-molecules. One reference. Tables graph.

Institution : Acad. of Sc. USSR, Institute of Elementary-Organic Compound

Submitted : March 22, 1954

USSR/Chemistry - Reaction processes

Card 1/1 : Pub. 22 - 27/46

Authors : Korshak, V. V., Memb. Corresp. of AN-USSR.; and Frunze, T. M.

Title : About interchange reactions between polyamide macro-molecules

Periodical : Dok. AN SSSR 97/ 4, 675-678, Aug 1, 1954

Abstract The phenomenon of interchange reactions between macro-molecules of polyamides (di- and tri-component polyamides), was investigated. Data on the preparation of polyamides are included. It was established that the interchange reactions between polyamide macro-molecules are an integral part of the polycondensation equilibrium and apparently take place with the participation of end macro-molecule groups. The products obtained from reactions between polyamide macro-molecules, are described. Twelve USSR references (1944-1953).

Institution : Acad. of Sc. USSR, Institute of Elementary-Organic Compounds

Submitted : March 22, 1954

USSR/Chemistry - Polymerization

Card 1/1 Pub. 22 - 31/56

Authors

Petrov, A. D.; Korshak, V. V., Memb. Correspondents of Ac. of Sc. USSR.; Polyakova, A. M.; Sakharova, A. A.: Mironov, V. F.; and Nikishin, G. I.

Title

High-pressure polymerization of mono- and polyalkenylsilanes

Periodical : Dok. AN SSSR 99/5, 785-788, Dec 11, 1954

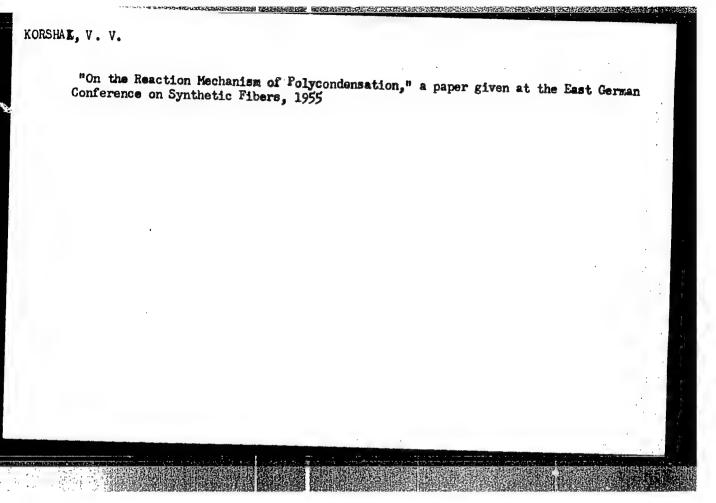
Abstract

Nineteen silico-olefines of different structure were subjected to polymerization by heating to 130° in the presence of tertiary butyl peroxide and 5500 atm pressure. The results show that under such rigid conditions the polymerizability of various alkenyl silanes and the nature of the polymers derived vary to a large extent. The reactivity of alkenyl silanes is determined by the structure of the latter and the orientation of the multiple bond relative to the Si-atom. The products, obtained through high-pressure polymerization of alkenyl silanes, are tabulated. Seven references: 5-USSR 1-USA and 1-English (1937-1953). Table; drawing.

Institutution: Academy of Sciences USSR, Institute of Organic Chemistry and Institute of

Elementary Organic Compounds

Submitted: June 29, 1954



KORSHAK V. V.

USSR/Chemistry - High-molecular compounds

Card 1/2

Pub. 40 - 21/27

Authors

Korshak, V. V., and Frunze, T. M.

Title

High-molecular compounds. Part 69. The dependence of polyamide properties upon the number of hydrogen bonds.

Periodical

Tzv. AN SSSR. Otd. khim. nauk 1, 163-171, Jan-Feb 1955

Abstract

Experiments were conducted to determine the effect of change in the number of hydrogen bonds on the properties of polyamides. It was found that because of the existing spatial hindrances a majority of the amide bonds cannot react and form hydrogen gonds which, of course, is reflected on the entire complex of physical properties of the polymer.

Institution :

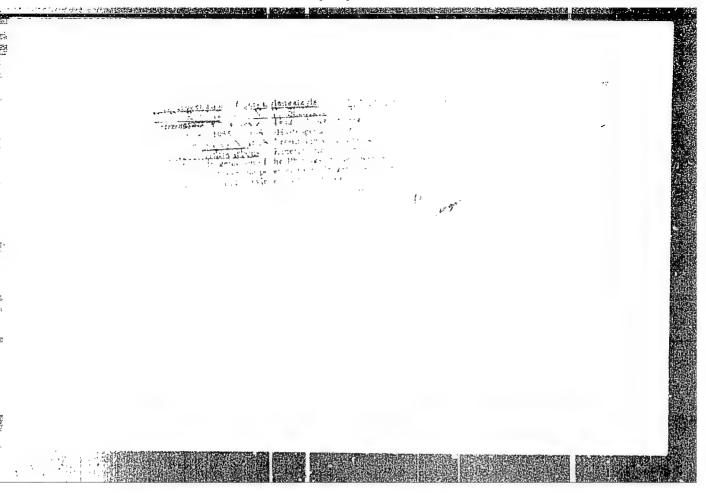
Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Org. Chem.

Submitted

December 12, 1953

Periodical: Izv. AN SSSR. Otd. khim. nauk 1, 163-171, Jan-Feb 1955

Abstract: Results also showed that the melting point of dicarboxylic acid polyamides with an even number of carbon atoms in the molecule varies depending upon the number of aride or hydrogen bonds. A graphical method is introduced for the determination of the number of hydrogen bonds between the molecules in mixed polyamides. Twenty-five referencess 6 USA, i German and 18 USSR (1936-1954). Tables; graphs; drawing.



APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824920020-4"

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KORSHAK U. U.	
USSR/ Chemistry	- High-molecular compounds
Card 1/2	Pub. 40 - 22/27
Authors :	Kolesnikov, G. S.; Korshak, V. V.; and Smirnova, T. V.
Title :	High-molecular compounds. Part 70. Growth of chain during polycondensation reaction in the presence of a catalyst
Periodical :	Izv. AN SSSR. Otd. khim. nauk 1, 172-178, Jan-Feb 1955
Abstract 🕟 🖡	It was established experimentally that the polycondensation reaction of 1,2-dichlcroethane with benzene in the presence of an AlCl, catalyst has an equilibrium and that the state of equilibrium is determined by the ratio of all basic substances involved in the reaction. Complete destruction was observed in the case of polyphenyleneethyl exposed to benzene in the presence of an AlCl, catalyst.
Institution:	Acad. of Sc., USSR, The N. D. Zelinskiy Inst. Of Org. Chem.
Submitted :	January 27, 1954

Card 2/2 Pub. 40 - 22/27

Periodical: Izv. AN SSSR. Otd. khim. nauk 1, 172-178, Jan-Feb 1955

Abstract: The basic rules of this destructive reaction are explained. The rate of growth of the chain, relative to the rate of destruction during the polycondensation, is described. Nine USSR references (1944-1951).

Tables; graphe.

Korshat, V. V.

USSR/ Chemistry - Organic chemistry

Card 1/1 Pub. 40 - 23/26

Authors Kolesnikov, G. S.; Korshak, V. V.; and Fedorova, L. S.

Title From the field of high molecular compounds. Part 71. Polycondensation of 1,2-dichloroethane with chlorobenzene in the presence of AlCl2.

Periodical | Izv. AN SSSR. Otd. khim. nauk 2, 359 - 364, Mar-Apr 1955

Abstract

The process of polycondensation of 1,2-dichloroethene with chlorobenzene was investigated and the basic laws governing this condensation process were established. It was found that the introduction of a C1 atom into the benzene ring hampers the formation of the trimeric polycondensation products. The structures of reaction products obtained over AlCl3 contacts are described. Seven references: 5 USSR, 1 USA and 1 German (1916-1955). Tables; graphs.

Institution : Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Organ. Chem.

Submitted : January 27, 1954

Korshak, V.V.

USSR/ Chemistry - Organic chemistry

Card

Pub. 40 - 24/26

Authors

* Korshak, V. V.; Kolesnikov, G. S.; and Soboleva, T. A.

Title

From the field of high molecular compounds. Part 72. Formation of a trimer during the reaction of polyphenyleneethyl with dihalogeno alkanes

Periodical t Izv. AN SSSR. Otd. khim. nauk 2, 365 - 371, Mar-Apr 1955

Abstract

1 The reaction between polyphenyleneethyl and various dihalogeno alkanes leading to the formation of trimeric products was investigated in the presence of anhydrous AlCl3. It was established excerimentally that the formation of the trimer, occuring during the synthesis of trimeric products from an artificially composed mixture of polyphenylene ethyls of various molecular weight, consumes most of the high molecular part of the polymer mixture. It is shown that the conversion of a linear polymer into a trimetric one is followed by a kind of "joining" of the macromolecules. Fourteen USSR references (1945-1953). Tables; graphs.

Institution: Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Organ. Chem.

Submitted

January 27, 1954

KORSHaK, V.V.

USSR/ Chemistry - Organic chemistry

Card 1/1

Pub. 40 - 25/26

Authors

Korshak, V. V., and Frunze, T. M

From the field of high molecular compounds. Part 73. About certain dicomponent mixed polyamides

Periodical I Izv. AN SSSR. Otd. khim. nauk 2, 372 - 379, Mar-Apr 1955

Abstract

Investigation was conducted to determine the physico-chemical properties of certain binary mixed polyamide systems synthesized from caprolactem and salts of hexamethylenediamine mixed with adipic, azelamino or sebacic acids. At a Caprolactam content of 80 mol/% the systems investigated appeared to have a very low melting point. The mechanism of the reaction leading to the formation of mixed polyamides for systems containing & -caprolactam is explained. Thirty-one references: 21 USSR, 7 German, 2 USA and 1 French (1896-1954). Table; graphs.

Institution : Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Organ. Chem.

Submitted

February 10, 1954

KORSHAK, V.V.; FRUNZE, T.M.

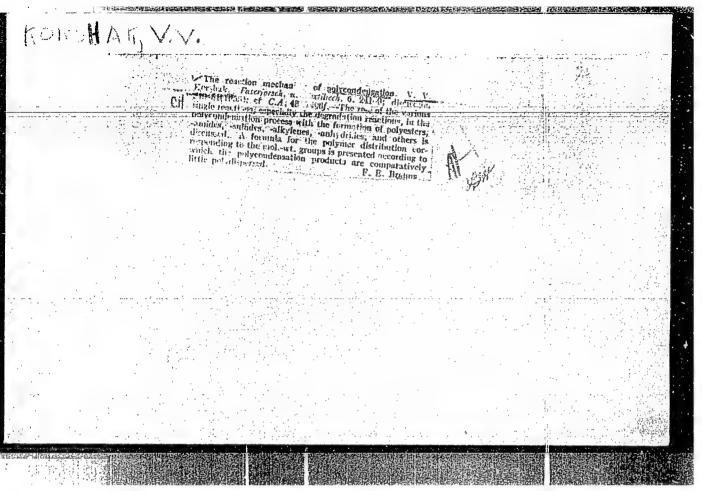
High melecular weight compounds. Report 77. Relation of properties of aliphatic polyamides with even rings to the ring structure. Isv.AN SSSR.Otd.khim.mank no.4:756-761 J1-Ag 155. (MLRA 9:1)

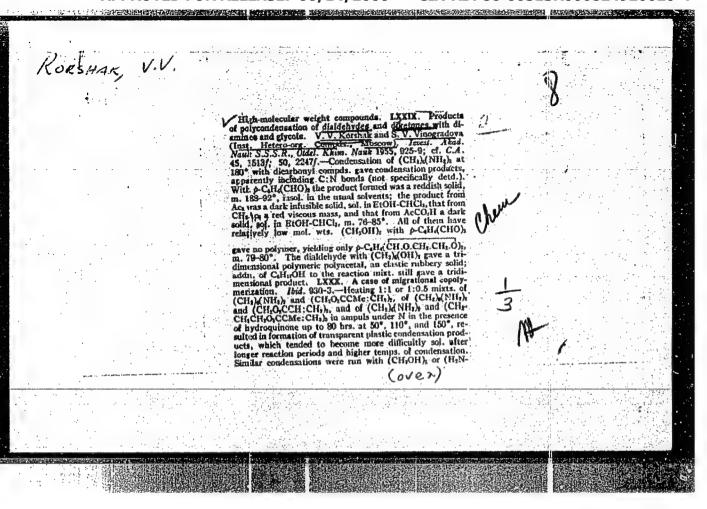
l.Institut erganicheskey khimii imemi W.D.Zelinskege Akademii mamk SSER. (Amides)

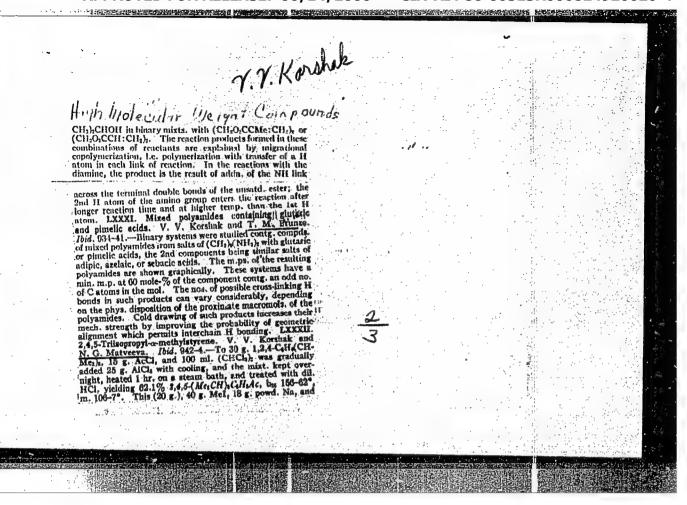
KORSHAK, V.V.; FRUNZE, T.M.

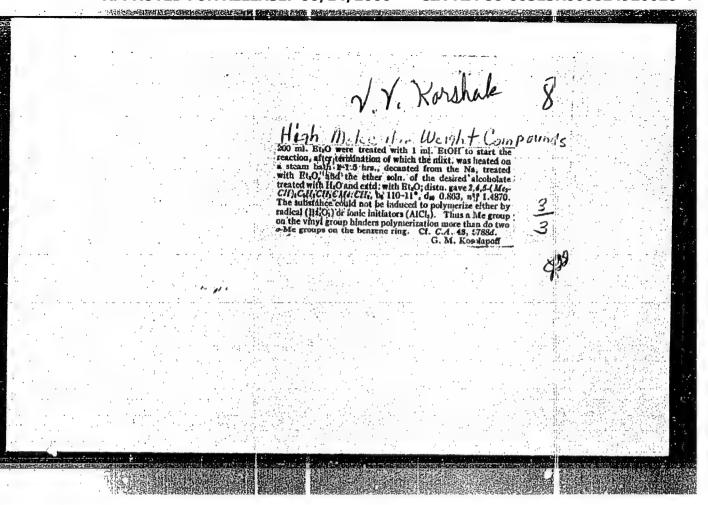
High melecular weight compounds. Report no.78. Relation of preporties of aliphatic polyamides with odd rings to the ring structure. Isv. AN SSSR. Otd.khim.nauk no.4:762-765 J1-Ag *55. (MIRA 9:1)

1. Institut erganicheskey khimii imemi N.D. Selimskege Akademii memk SSSR. (Amides)









KORSHAK, V.V.; VINOGRADOVA, S.V.

High molecular weight compounds. Part 80. A case of migrational copolymerisation. Isv. AN SSSR.Otd.khim.namk no.5:930-933 S-C

155. (NIRA 9:1)

1. Institut elementoorganicheskikh sayedineniy Akademii nauk SSSR. (Polymers and polymerisation)

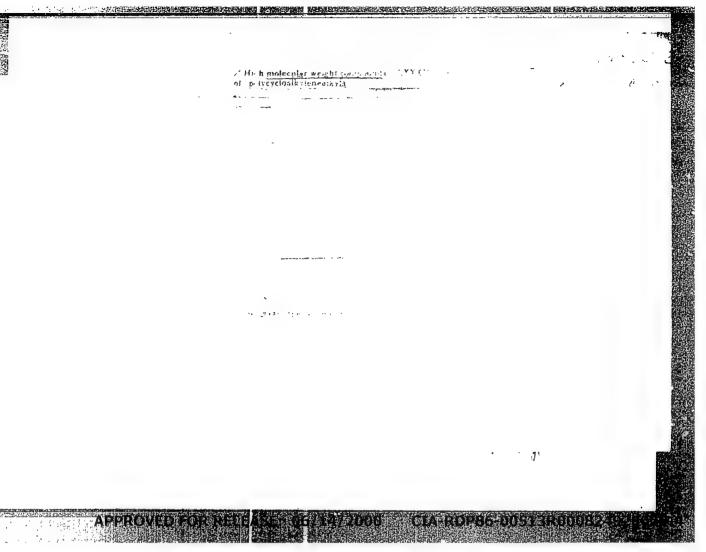
KORSHAK, V.V.; FRUEZE, T.M.

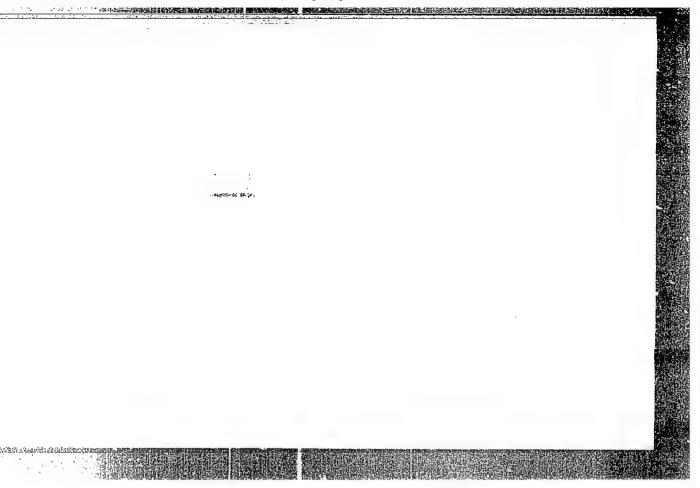
High molecular weight compounds. Part 81. Mixed polyamides derived from glutaric and pimelic acids. Inv.AM SSSR.Otd.khim.nauk no.5: 934-941 8-0 155. (MLRA 9:1)

1.Institut element'oorganicheskikh sayedinemiy Akademii nauk SSSR. (Amides)

High molecular weight compounds. Isv.AE SSSR.Otd.khim.nsuk no.5:
942-944 S-0 55. (MLRA 9:1)

1. Institut elementoorganicheskikh edyedineniy Akademii nsuk SSSR.
(Styrene)





AID P - 3426

KORSHAK,

Subject

: USSR/Chemistry

Card 1/1

Pub. 152 - 11/18

Authors

Korshak, V. V. and A. A. Ivanova

Title

Dehydration of methyl ricinoleate

Periodical

Zhur. prikl. khim., 28, 5, 523-532, 1955

Abstract

: Experiments were carried out in the presence of various catalysts of which sodium bisulfate was the most active. The dehydration of methyl ricinoleate in the presence of NaHSO₄ attains 86.59% at 250°C. Seven tables, 11 references, 7 Russian (1914-1950).

Institution : None

Submitted

\$ 9, 1953

KOLESNIKOV, G.S.; KORSHAK, V.V.; SOBOLEVA, T.A.

High molecular weight compounds. Part 84. Polycondensation of 1,2-dichleroethane with teluene. Isv.AN SSSR Otd.khim.nauk 86 no.6:1095-1099 My '55. (MIRA 9:4)

1. Institut elementeerganicheskikh seyedineniy Akademii nauk SSSR. (Ethane) (Teluene)

KOLESNIKOV, G.S.; KORSHAK, V.V.

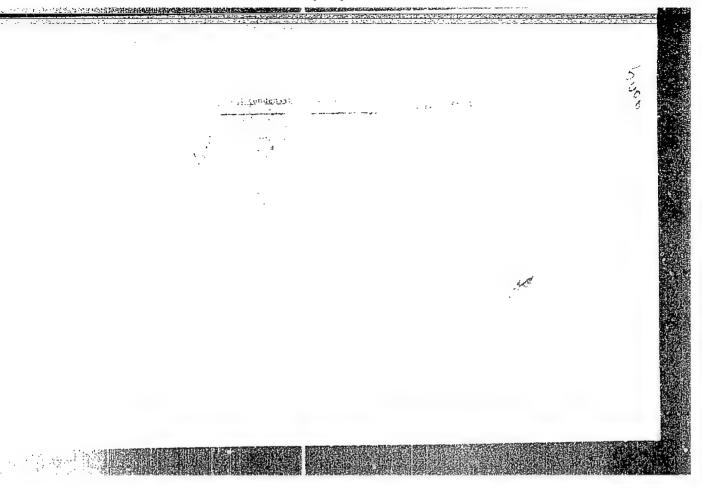
High melecular weight compounds. Part 85. The polycondensation of 1,2-dichlereethame with e-dichlerebensene. Isv.AN SSSR.Otd.khim. nauk 86 ne.6:1100-1106 My *55. (MLRA 9:4)

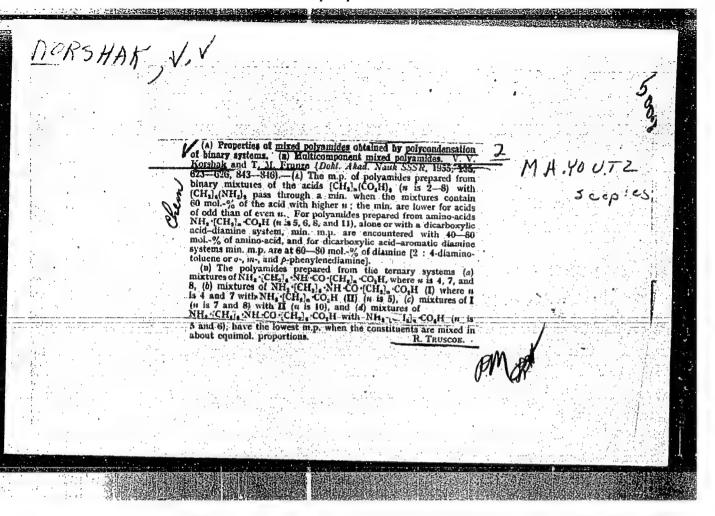
1. Institut elementeerganicheskikh seyedineniy Akademii nauk SSSR. (Ethane) (Bensene)

KORSHAK, V.V.; PAVLOVA, S.A.

High melecular weight compounds. Part 86. Determination of the melecular weights of polyamides by the viscosity of their solutions in cresel and methanel. Izv. AN SSSR. Otd. khim. nauk 86 no. 6:1107-1111 My. 155. (MIRA 9:4)

1.Institut elementeergamicheskikh seyedineniy Akademii nauk SSSR. (Melecular weights) (Amides)





KORSHAK, V.V.; FRUNZE, T.M.

Multi-component mixed polymides. Dokl.AN SSSR 103 nc.5:843-846 Ag 155. (MIRA 9:1)

1.Chlen-kerrespendent AB SSSR (for Kershak).2.Institut elementeorganicheskikh soyedineniy Akademii nauk SSSR. for the state of the st

KIRSHAK, D USSR/ Chemistry - Molecular compounds Card 1/1 Pub. 40 - 17/25 Authors ! Korshak, V. V.; Frunze, T. M. Title High molecular compounds. Part 87. Mixed polyamides containing certain amino Periodical : Izv. AN SSSR. Otd. khim. nauk 1, 98-102, Jan 1956 Abstract * An investigation was conducted to determine the characteristics of mixed binary polyamides obtained from ω -aminoenanthic, ω -aminopelargonic or w -aminoundecanic acids and hexamethylenediamine salts of such dicarboxylic acids as adipic, azelaic or sebacic. The reaction leading to the formation of mixed polyamides is described. Six references: 3 USSR, 1 Swiss, 1 Germ. and 1 USA (1929-1955). Table; graphs. Institution: Acad. of Sc., USSR, Inst. of Organoelemental Compounds : August 18, 1954 Submitted

USSR/Chemistry - Holecular compounds

Card 1/1 Pub. 40 - 18/25

Title

Abstract

Authors : Korshak, V. V., and Chelnokova, G. N.

High molecular compounds. Part 88. Polyamides having ether bonds in the macromolecule chain

Periodical : Izv. AN SSSR. Otd. khim. nauk 1, 103-107, Jan 1956

The derivation of polyamides from diglycolic acid and hexamethylenediamine is described. Mixed polyamides were also obtained from & -carbolactam and salts of di-(gamma-aminipropyl) ether of ethylene glycol with adipic acid and from salts of adipic acids with hexamethylenediamine at various ratios of the basic substance. It was established that the addition of ethereal oxygen to the polyamide macromolecule chain leads to a reduction in the melting point and to an increase in solubility in comparison with polyamides having no ether bonds. The properties of the polyamides are listed. Six references: 1 USA, 3 USSR, 1 Germ., and 1 Eng. (1905-1955). Tables; graphs.

Institution: Acad. of Sc., USSR, Inst. of Organoelemental Compounds

Submitted : August 18, 1954

USSR/ Chemistry - Molecular compounds

116 1

Card 1/1

Pub. 40 - 19/25

Authors

: Korahak, V. V.; Frunze, T. M.; and Dikareva, T. A.

Title

High molecular compounds. Part 89. Tri-component mixed polyamide systems containing amino acids

Periodical : Izv. AN SSSR. Otd. khim. nauk 1, 108-113, Jan 1956

Abstract

: Ternary mixed polyamide systems containing w -aminoenanthic, w -aminopelargonic or W aminoundecane acids and salts of hexamethylenediamine with adipic, azelaic or sebacic acids as well as & -carbolactam in various combinations, were investigated. It was found that products with lowest melting points and maximum solubility have average compositions and are oriented in the central part of the diagram. The products containing carbolactam in addition to the amino base acids were found to be different from the carbolactamless products. Three USSR references (1955). Tables; diagrams.

Institution: Acad. of Sc., USSR, Inst. of Organoelemental Compounds

Submitted : August 18, 1954

USSR/ Chemistry - Holecular compounds

Card 1/1 Pub. 40 - 20/25

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Authors

Abstract

* Kolesnikov, G. S.; Korshak, V. V.; Andreyeva, H. A.; and Kitaygorodskiy, A. I.

Title

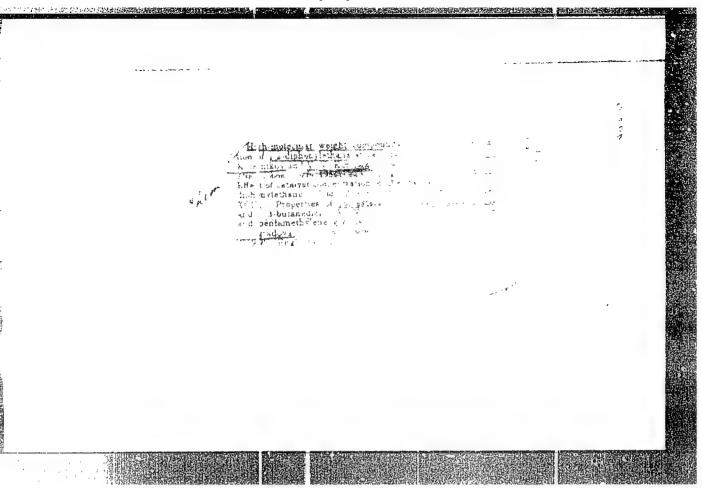
High molecular compounds. Part 90. Polycondensation of 1,2-dichloroethane with tetralin

Periodical : Izv. AN SSSR. Otd. khim. nauk 1, 114-119, Jan 1956

: The polycondensation of 1,2-dichloroethane with tetralin was investigated in the presence of aluminum chloride and the basic laws governing this polycondensation process were established. On the basis of x-ray analysis it was determined that 1,2-di-(beta-tetralyl) ethane is the product obtained during the initial polycondensation stages. The formation of three-dimensional polycondensation products was observed in spite of the fact that the potential function of tetralin is only 4. The effect of benzene-solution concentrations of polytetralylenethyl on the polymer molecule association is discussed. Seven references: 5 USSR and 2 Germ. (1921-1955). Tables: graph.

Institution : Acad. of Sc., USSR, Inst. of Organoelemental Compounds

Submitted : November 18, 1954



KOLESNIKOV, G.S.; KORSHAK, V.V.

High molecular weight compounds. Part 92. Effect of the catalyst concentration on the transarylation of 1,2-diphenylethane. Isv. AN SSSR Otd.khim.nauk no.2:239-242 F *56. (NIRA 9:7)

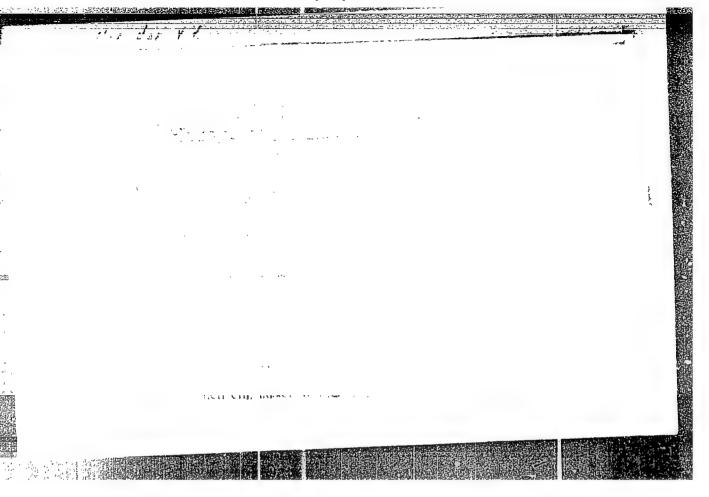
1.Institut elementeorganicheskikh seyedineniy Akademii nauk SSSR. (Bibensyl) (Catalysts)

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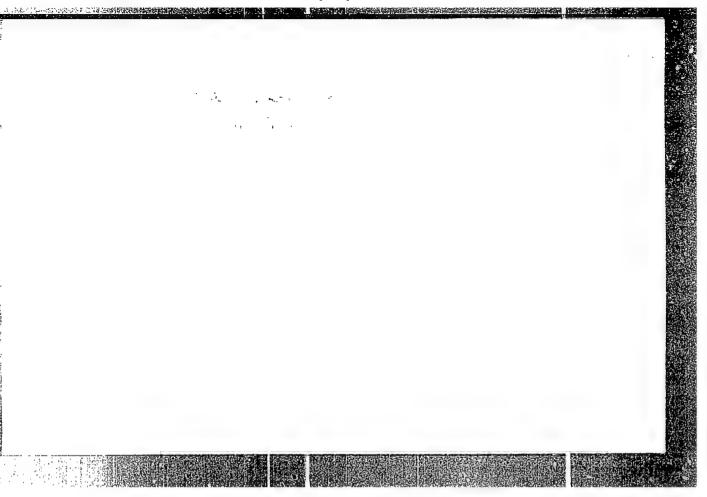
POLYAKOVA, A.M.; KORSHAK, V.V.; SAKHAROVA, A.A.; PETROV, A.D.; MIRONOV, V.F.;

Polymerization and copolymerization of alkenylsilanes under high pressure. Part 2. Isv. AN SSSR. Otd.khim. nauk no.81979-985 &g 156. (MLBA 9:10)

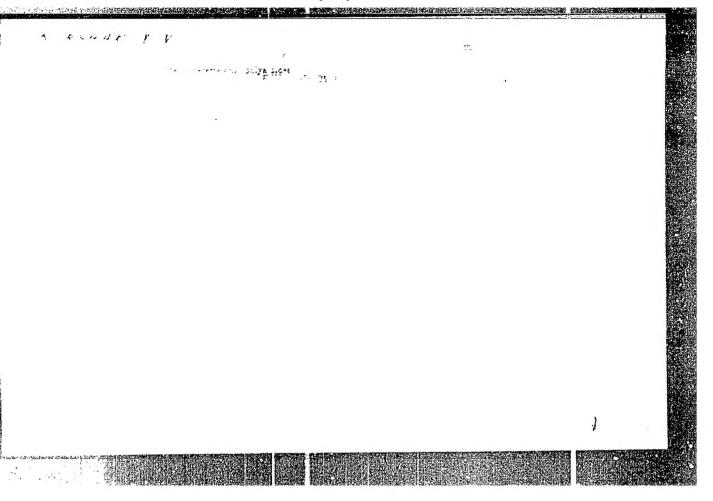
1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR i Institut organicheskoy khimii imeni N.D. Zelinskogo Akademii nauk SSSR. (Polymers and polymerisation) (Silane)



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KORSHAK, V.V.; VINOGRADOVA, S.V.

High molecular weight compounds. Part 93. Properties of polyesters of tetramethyleneglycol and butanediol-1,3. Zhur.ob.khim. 26 no.2: 539-544 F '56. (NGRA 9:8)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSER. (Butanediol) (Esters)

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* KORSHAK, V.V.: VINOGRADOVA, S.V.

High molecular weight compounds. Part 94. Polyesters of trimethylene and pentamethylene glycols. Zhur.ob.khim. 26 no.2:544-548 F 156. (NLRA 9:8)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSER, (Propanediol) (Pentanediol) (Esters)

KORSHAK, V.V.; VINOGRADOVA, S.V.

High molecular weight compounds. Part 95. Polyesters of thiodi-valeric acid. Zhur.ob.khim. 26 no.3:732-735 Mr '56. (MLRA 9:8)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR. (Valeric acid)